

We claim:

1. A communications system with a transmission network for transmitting useful signals, comprising:

at least one subscriber terminal having an input for inputting call numbers;

at least one subscriber line unit connected between said at least one subscriber terminal and a transmission network of the communications system, said subscriber line unit having an adjustable transmission characteristic;

a recognition unit connected to the transmission network for recognizing a particular call number pattern and for outputting control signals corresponding to a call number pattern; and

a control unit connected between said recognition unit and said subscriber line unit for adjusting the adjustable transmission characteristic of said subscriber line unit in dependence on the control signals output by said recognition unit.

2. The communications system according to claim 1, wherein the transmission network has an adjustable transmission characteristic, said control unit transmits an acknowledgement signal to the transmission network after the transmission

characteristic of said subscriber line unit has been set, and the transmission network subsequently adapts the adjustable transmission characteristic to a changed transmission characteristic of the subscriber line unit.

3. The communications system according to claim 1, wherein the transmission network has an adjustable transmission characteristic, and the system further comprises a device connected in the transmission network for checking a transmission quality of a connection of a subscriber terminal and, if the transmission quality has been determined to be of a relatively higher transmission quality, to match the transmission characteristic of the transmission network accordingly.

4. The communications system according to claim 1, wherein said subscriber line unit includes one of a coding unit having variable coding characteristic adjustable by said control unit, a filter unit having a frequency response adjustable by said control unit, an amplifier unit having a variable gain/attenuation adjustable by said control unit, and an impedance matching unit having an impedance adjustable by said control unit.

5. The communications system according to claim 1, which further comprises a memory unit storing in a combinational

logic table a logic combination of a transmission characteristic of said subscriber line unit with the control signals.

6. The communications system according to claim 1, which further comprises a computer unit programmed to calculate a logic combination of a transmission characteristic of said subscriber line unit with the control signals from the control signals themselves.

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